TABLE OF CONTENTS

to Volume 93. September–December 1979

ADOUTTE, ANDRE, JONATHAN K. KNOWLES and ANNIE SAINSARD-CHANET, Absence of detectable mitochondrial recombination in Paramecium 797–831

ARIMA, KENJI and ISAMU TAKANO, Evidence for co-dominance of the homothallic genes, *HMa/hma* and *HMa/hma* in Saccharomyces yeasts 1–12

BERG, CLAIRE M., KAREN J. SHAW, JOYCE VENDER and MARYLA BORUCKA-MANKIEWICZ, Physiological characterization of polar Tn*5*-induced isoleucine-valine auxotrophs in *Escherichia coli* K-12: evidence for an internal promoter in the *ilvOGEDA* operon 309–319

BROWN, JOHN W. S., ROGER J. KEMBLE, COLIN N. LAW and RICHARD B. FLAVELL, Control of endosperm proteins in *Triticum aestivum* (var. Chinese Spring) and *Aegilops umbellulata* by homoeologous group *1* chromosomes 189–200

BUCHETON, ALAIN, Non-Mendelian female sterility in *Drosophila melanogaster*: influence of aging and thermic treatments. III. Cumulative effects induced by these factors 131–142

CHARLESWORTH, D., B. CHARLESWORTH and C. STROBECK, Selection for recombination in partially self-fertilizing populations 237–244

CHATTOO, BHARAT B., EDWARD PALMER, BUN-ICHIRO ONO and FRED SHERMAN, Patterns of genetic and phenotypic suppression of *ly2* mutations in the yeast *Saccharomyces cerevisiae* 67–79

CHATTOO, BHARAT B., FRED SHERMAN, DALIA A. AZUBALIS, THORSTEN A. FJELLSTEDT, DAVID MEHNERT and MAURICE OGUR, Selection of *lys2* mutants of the yeast *Saccharomyces cerevisiae* by the utilization of α-aminoadipate 51–65

COCHRANE, BRUCE J. and ROLLIN C. RICHMOND, Studies of esterase-6 in *Drosophila melanogaster*. II. The genetics and frequency distributions of naturally occurring variants studied by electrophoretic and heat stability criteria 461–478

CRANDALL, MARJORIE and JOAN H. CAULTON, Rare-cell fusion events between diploid and haploid strains of the sexually agglutinative yeast *Hansenula wingei* 903–916

CSONKA, LÁSZLÓ N. and ALVIN J. CLARK, Deletions generated by the transposon Tn*10* in the *srl recA* region of the *Escherichia coli* K-12 chromosome 321–343

DAVIS, ROWLAND H., Genetics of arginine biosynthesis in *Neurospora crassa* 557–575

DENELL, R. E. and D. O. KEPPY, The nature of genetic recombination near the third chromosome centromere of *Drosophila melanogaster* 117–130

DOONER, HUGO K.,, Identification of an *R*-locus region that controls the tissue specificity of anthocyanin formation in maize 703–710

ECHOLS, HARRISON and LINDA GREEN, Some properties of site-specific and general recombination inferred from int-initiated exchanges by bacteriophage lambda ... 297–307

ENDLER, JOHN A., Gene flow and life history patterns 263–284

FELSENSTEIN, JOSEPH, Excursions along the interface between disruptive and stabilizing selection 773–795

FOX, R. R. and L. F. M. VAN ZUTPHEN, Chromosomal homology of rabbit (*Oryctolagus cuniculus*) linkage group VI with rodent species 183–188

GAUSZ, JANOS, GABOR BENCZE, HENRIK GYURKOVICS, MICHAEL ASHBURNER, DAVID ISH-HOROWICZ and JEANETTE J. HOLDEN, Genetic characterization of the 87C region of the third chromosome of *Drosophila melanogaster* 917–934

GENEROSO, WALDERICO M., SANDRA W. HUFF and KATHERINE T. CAIN, Relative rates at which dominant-lethal mutations and heritable translocations were induced by alkylating chemicals in postmeiotic male germ cells of mice 163–171

GIANOLA, DANIEL, Estimation of genetic covariance from joint offspring-parent and sib-sib statistics 1039–1049

GIANOLA, DANIEL, Heritability of Polychotomous characters 1051–1055

GILES, RICHARD E. and FRANK H. RUDDLE, *X*-linkage of a human genetic locus that corrects the DNA synthesis lesion in *tsC1AGOH* mouse cells 975–996

GILLESPIE, JOHN H., Molecular evolution and polymorphism in a random environment 737–754

GUTERMAN, S. K. and C. L. HOWITT, Rho and ribosome mutation interaction: lethality of *rho-15* in *rpsL* or *rpsE* strains, and *rho-15* methionine auxotrophy in *rps*$^+$ strains of *Escherichia coli* 353–360

HABER, JAMES E. and JEANNE P. GEORGE, A mutation that permits the expression of normally silent copies of mating-type information in *Saccharomyces cerevisiae* .. 13–35

HENIKOFF, STEVEN, Position effects and variegation enhancers in an autosomal region of *Drosophila melanogaster* 105–115

HEUDE, M. and E. MOUSTACCHI, The fate of mitochondrial loci in rho minus mutants induced by ultraviolet irradiation of *Saccharomyces cerevisiae*: effects of different post-irradiation treatments 81–103

HIRAIZUMI, YUICHIRO, A model of the negative correlation between male recombination and transmission frequency in *Drosophila melanogaster* 449–459

HOLDEN, L. R., New properties of the two-locus partial selfing model with selection .. 217–236

KINSEY, JOHN A. and J. R. S. FINCHAM, An unstable allele of the *am* locus of *Neurospora crassa* 577–586

KLAR, AMAR J. S., SEYMOUR FOGEL and KATHY MACLEOD, *MAR1*—A regulator of the *HM*a and *HM*α loci in *Saccharomyces cerevisiae* 37–50

KOLTIN, Y., JUDITH STAMBERG, N. BAWNIK, A. TAMARKIN, R. WERCZBERGER, Mutational analysis of natural alleles in and affecting the *B* incompatibility factor of Schizophyllum 383–391

KRZAKOWA, M. and J. SZWEYKOWSKI, Isozyme polymorphism in natural populations of a Liverwort, *Plagiochila asplenioides* 711–719

LABARERE, JACQUES and JEAN BERNET, Protoplasmic incompatibility in *Podospora anserina*: a possible role for its associated proteolytic activity 525–537

LIM, J. K., Site-specific instability in *Drosophila melanogaster*: the origin of the mutation and cytogenetic evidence for site specificity 681–701

LOUKAS, M., C. B. KRIMBAS and Y. VERGINI, The genetics of *Drosophila subobscura* populations. IX. Studies on linkage disequilibrium in four natural populations ... 497–523

MADL, JAMES E. and ROBERT K. HERMAN, Polyploids and sex determination in *Caenorhabditis elegans* 393–402

MANNELLA, CARMEN A. and ALAN M. LAMBOWITZ, Unidirectional gene conversion associated with two insertions in *Neurospora crassa* mitochondrial DNA 645–654

MARTIN, DIANA W. and YUICHIRO HIRAIZUMI, On the models of segregation distortion in *Drosophila melanogaster* 423–435

MCKEE, RICHARD H. and CHRISTOPHER W. LAWRENCE, Genetic analysis of gamma-ray mutagenesis in yeast. I. Reversion in radiation-sensitive strains 361–373

MCKEE, RICHARD H. and CHRISTOPHER W. LAWRENCE, Genetic analysis of gamma-ray mutagenesis in yeast. II. Allele-specific control of mutagenesis 375–381

METZENBERG, ROBERT L. and WILLIAM CHIA, Genetic control of phosphorus assimilation in *Neurospora crassa*: dose-dependent dominance and recessiveness in constitutive mutants 625–643

MORIZOT, DONALD C. and MICHAEL J. SICILIANO, Polymorphisms, linkage and mapping of four enzyme loci in the fish genus Xiphophorus (Poeciliidae) 947–960

OU, JONATHAN T. and LI-MEI KUO, Suppression of the formation of polygenotypic recombinant colonies by a *maf* mutation in mating with HfrH 345–351

PITTENGER, THAD H. and DAVID J. WEST, Isolation and characterization of temperature-sensitive respiratory mutants of *Neurospora crassa* 539–555

RAJASEKARASETTY, M. R., L. SIDDAVEERE GOWDA, N. G. KRISHNAMURTHY and H. A. RANGANATH, Population genetics of *Drosophila nasuta nasuta*, *Drosophila nasuta albomicana* and their hybrids. I. Karyotypic mosaicism in the hybrid populations 211–215

RAJU, NAMBOORI B., Cytogenetic behavior of Spore killer genes in Neurospora 607–623

RAMSHAW, JOHN A. M., JERRY A. COYNE and R. C. LEWONTIN, The sensitivity of gel electrophoresis as a detector of genetic variation 1019–1037

RAWLS, JOHN M., JR. and LAWRENCE A. PORTER, Organization of the rudimentary wing locus in *Drosophila melanogaster*. I. The isolation and partial characterization of mutants induced with ethyl methanesulfonate, ICR-170 and X rays 143–161

RINE, JASPER, JEFFREY N. STRATHERN, JAMES B. HICKS and IRA HERSKOWITZ, A suppressor of mating-type locus mutations in *Saccharomyces cerevisiae*: evidence for and identification of cryptic mating-type loci 877–901

ROBERTS, DAVID B. and SUSAN EVANS-ROBERTS, The genetic and cytogenetic localization of the three structural genes coding for the major protein of Drosophila larval serum 663–679

ROBSON, GILLIAN E. and KEITH L. WILLIAMS, Vegetative incompatibility and the mating-type locus in the cellular slime mold *Dictyostelium discoideum* 861–875

SAINSARD-CHANET, ANNIE and JONATHAN KNOWLES, Restoration of nucleo-mitochondrial compatibility in Paramecium 833–859

SCOZZARI, R., G. TRIPPA, V. PETRARCA and R. CICCHETTI, Nonelectrophoretic genetic variability in mosquitoes: polymorphism for temperature-resistant and temperature-sensitive phosphoglucomutase alleles in *Culex pipiens* 201–209

SHULKA, P. T. and C. AUERBACH, The brood pattern of mitomycin-C-induced translocations in *Drosophila melanogaster* males: the effect of time 403–409

SINGH, RAMA S., Genetic heterogeneity within electrophoretic "alleles" and the pattern of variation among loci in *Drosophila pseudoobscura* 997–1018

SLATKIN, MONTGOMERY, Frequency- and density-dependent selection on a quantitative character 755–771

SNOW, RICHARD, Letter to the Editor 285

STRAUSBAUGH, LINDA D., STEPHEN H. CLARK and ROBERT M. GRAINGER, Genetic modulation of RNA metabolism in Drosophila. IV. Measurement of rates of RNA synthesis by density labeling 655–661

STRAUSBAUGH, LINDA D. and BARRY I. KIEFER, Genetic modulation of RNA metabolism in Drosophila. III. Requirement for an rDNA-deficient *X* chromosome in $Ybb^{SuVar-5}$-mediated increases in RNA synthesis 411–422

SZOKA, P. R. and K. PAIGEN, Genetic regulation of mup production in recombinant inbred mice 173–181

THOMPSON, E. A., Fission models of population variability 479–495

THORGAARD, GARY H. and GRAHAM A. E. GALL, Adult triploids in a rainbow trout family 961–973

TURNER, BARBARA C. and DAVID D. PERKINS, Spore killer, a chromosomal factor in Neurospora that kills meiotic products not containing it 587–606

UYENOYAMA, MARCY K. and BENGT OLLE BENGTSSON, Towards a genetic theory for the evolution of the sex ratio 721–736

WASSERMAN, MARVIN and H. ROBERTA KOEPFER, Cytogenetics of the South American *Drosophila mulleri* complex: the *martensis* cluster. More interspecific sharing of inversions 935–946

WILSON, GEOFFREY G., RACHAEL L. NEVE, GORDON J. EDLIN and WILLIAM H. KONIGSBERG, The *BAM* H1 restriction site in the bacteriophage T4 chromosome is located in or near gene *8* 285–296

YAMAMOTO, MASATOSHI, Interchromosomal effects of heterochromatic deletions on recombination in *Drosophila melanogaster* 437–448

YOKOYAMA, SHOZO, The rate of allelism of lethal genes in a geographically structured population 245–262